

FIG. 1 PRIOR ART

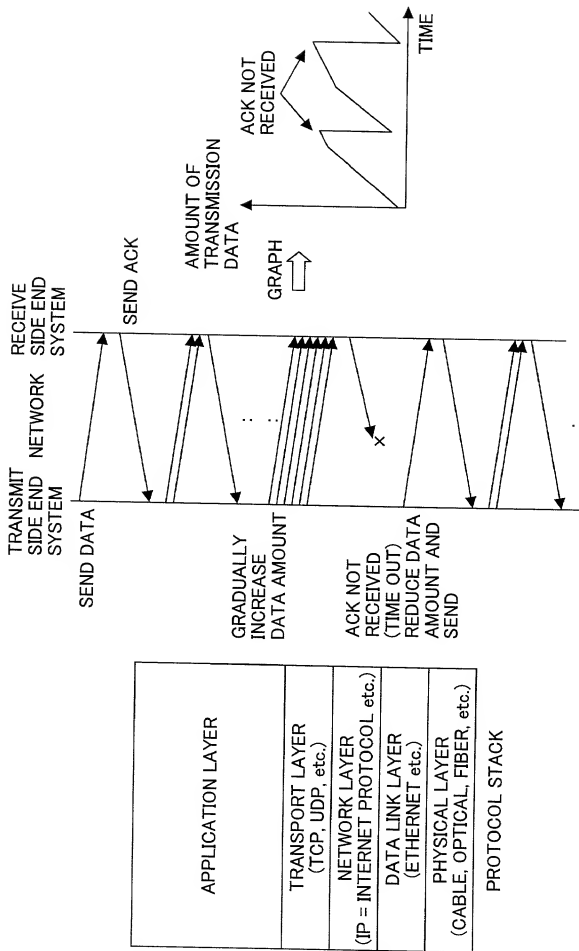
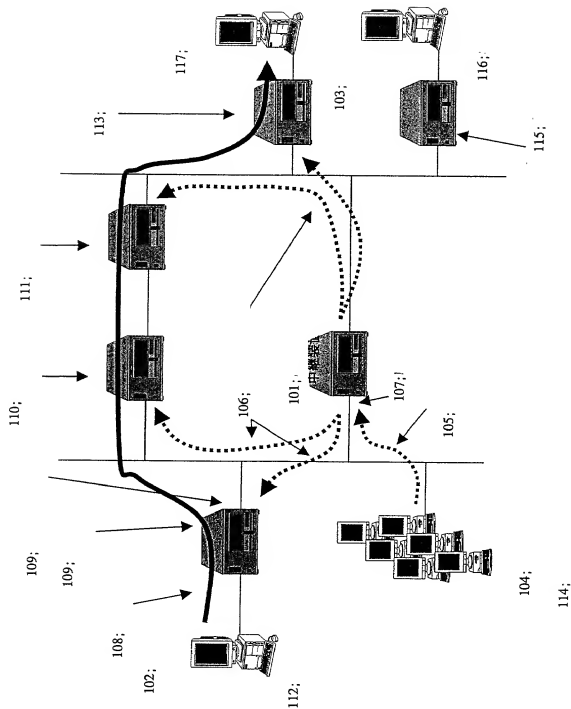


FIG. 2



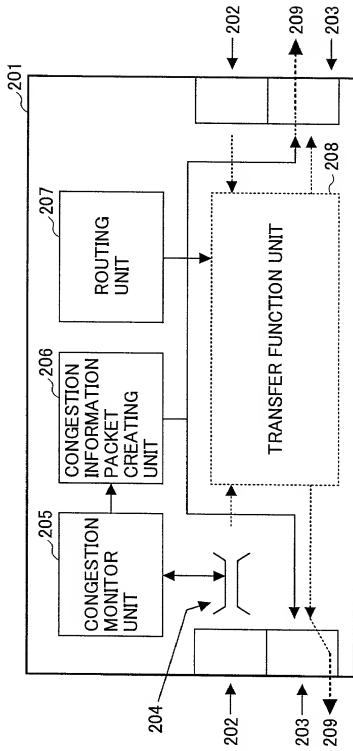


FIG. 3A

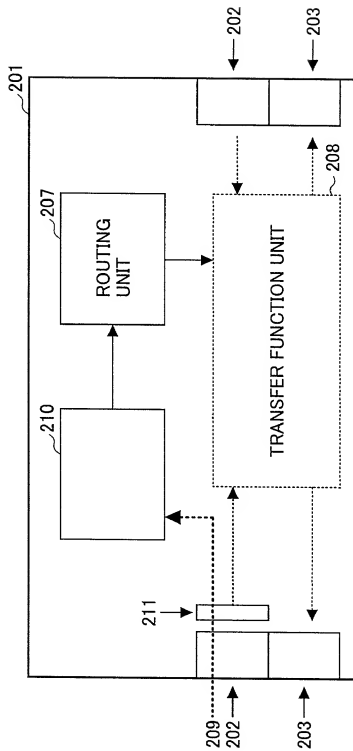


FIG.3B

# FIG.4

DATA DESTINATION	ROUTER OF NEXT STAGE	NUMBER OF ROUTERS
NETWORK C	101	3
NETWORK D	101	3
:		:
:		:

← 301



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CONGESTION INFORMATION

DATA DESTINATION	ROUTER OF NEXT STAGE	NUMBER OF ROUTERS
NETWORK C	110	4
NETWORK D	110	4
:		:
:		:

← 302

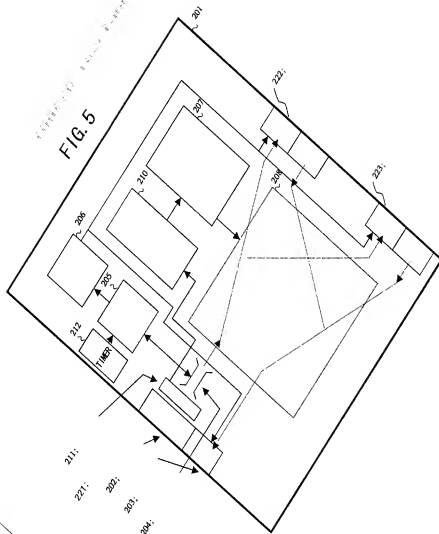


FIG. 6

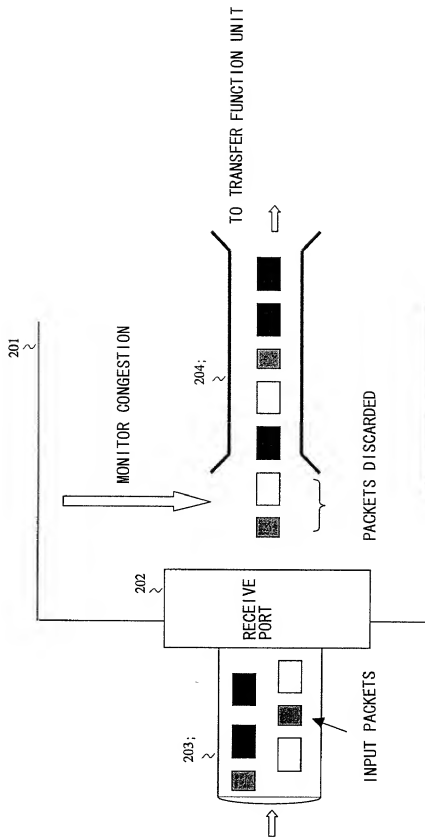


FIG. 7

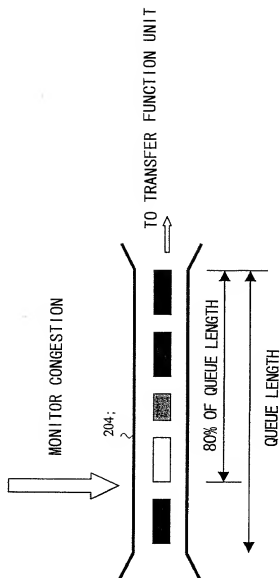
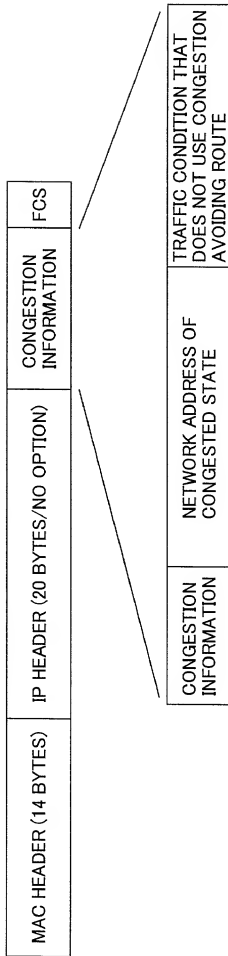




FIG.8

CONGESTION INFORMATION FRAME (ETHERNET)



01 : CONGESTION/10 : RESTORATION FROM CONGESTION

FIG. 9

INTERNET/INTRANET/ISP NETWORK

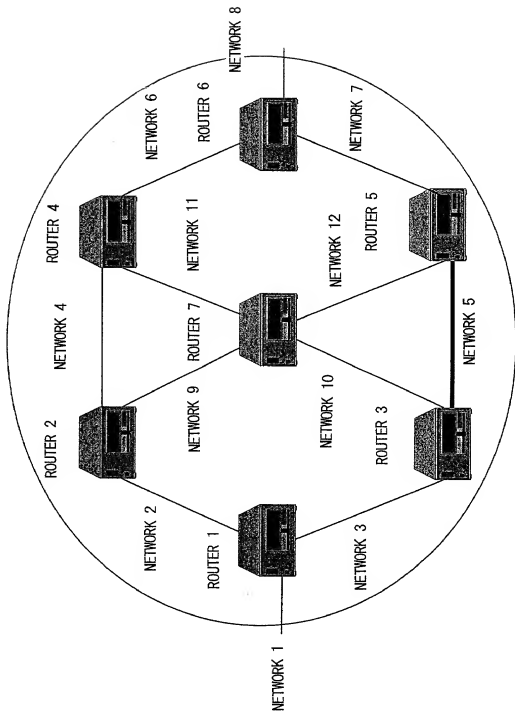


FIG. 10

TOPOLOGY DATABASE												
ROUTER	NETWORK											
	1	2	3	4	5	6	7	8	9	10	11	12
1	0	0	0									
2		0		0					0			
3			0		0					0		
4				0		0					0	
5					0		0					0
6						0	0	0				
7									0	0	0	0

FIG.11

ROUTE NUMBER	ROUTE FROM NETWORK 1 TO NETWORK 7	NUMBER OF ROUTER STAGES	VALID
1	ROUTER 1 - ROUTER 3 - ROUTER 5	3	O
2	ROUTER 1 - ROUTER 2 - ROUTER 7 - ROUTER 5	4	O
3	ROUTER 1 - ROUTER 2 - ROUTER 4 - ROUTER 6	4	O
4	ROUTER 1 - ROUTER 2 - ROUTER 7 - ROUTER 4 - ROUTER 6	5	O
5	ROUTER 1 - ROUTER 3 - ROUTER 7 - ROUTER 4 - ROUTER 6	5	O
6	ROUTER 1 - ROUTER 2 - ROUTER 4 - ROUTER 7 - ROUTER 5	5	O
7	ROUTER 1 - ROUTER 2 - ROUTER 7 - ROUTER 3 - ROUTER 5	5	O
8	ROUTER 1 - ROUTER 3 - ROUTER 5 - ROUTER 7 - ROUTER 4 - ROUTER 6	6	O
9	ROUTER 1 - ROUTER 3 - ROUTER 7 - ROUTER 2 - ROUTER 4 - ROUTER 6	6	O

FIG. 12

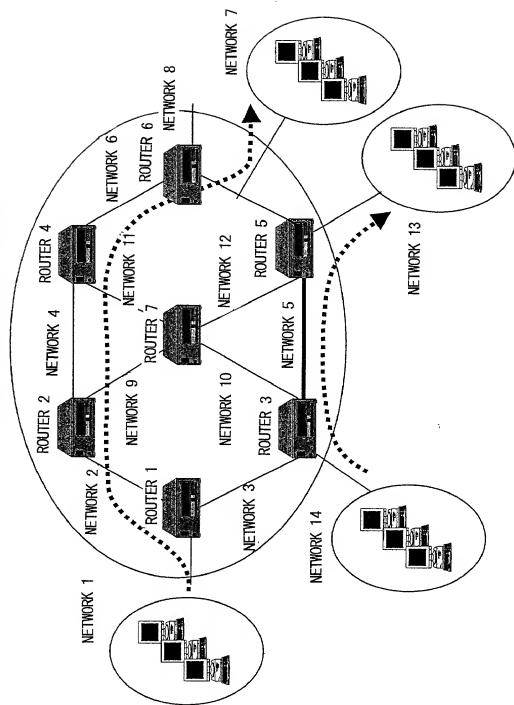
TOPOLOGY DATABASE												
ROUTER	NETWORK											
	1	2	3	4	5	6	7	8	9	10	11	12
1	0	0	0									
2		0		0					0			
3			0		X					0		
4				0		0						
5					X		0					0
6						0	0	0				
7									0	0	0	0

FIG. 13

ROUTE NUMBER	ROUTE FROM NETWORK 1 TO NETWORK 7	NUMBER OF ROUTER STAGES	VALID	EXCEPTIONAL CONDITION
1	ROUTER 1 - ROUTER 3 - ROUTER 5	3	x	<ul style="list-style-type: none"> <li>TRANSMISSION SOURCE IP ADDRESS: xxx.xx.xx.xxx</li> <li>INTERFACE: #y</li> <li>PROTOCOL ID: z</li> </ul>
2	ROUTER 1 - ROUTER 2 - ROUTER 4 - ROUTER 6	4	O	
3	ROUTER 1 - ROUTER 2 - ROUTER 7 - ROUTER 5	4	O	
4	ROUTER 1 - ROUTER 2 - ROUTER 7 - ROUTER 4 - ROUTER 6	5	O	
5	ROUTER 1 - ROUTER 3 - ROUTER 7 - ROUTER 4 - ROUTER 6	5	O	
6	ROUTER 1 - ROUTER 2 - ROUTER 4 - ROUTER 7 - ROUTER 5	5	O	
7	ROUTER 1 - ROUTER 2 - ROUTER 7 - ROUTER 3 - ROUTER 5	5	O	
8	ROUTER 1 - ROUTER 3 - ROUTER 5 - ROUTER 7 - ROUTER 4 - ROUTER 6	6	O	
9	ROUTER 1 - ROUTER 3 - ROUTER 7 - ROUTER 2 - ROUTER 4 - ROUTER 6	6	O	

FIG. 14

INTERNET/INTRANET/ISP NETWORK



# FIG.15

DATA DESTINATION	ROUTER OF NEXT STAGE	NUMBER OF ROUTERS
NETWORK 7	ROUTER 3	3
:	:	:
:	:	:
:	:	:

← 1401



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DATA DESTINATION	ROUTER OF NEXT STAGE	NUMBER OF ROUTERS	EXCEPTIONAL CONDITION
NETWORK 7	ROUTER 2	4	[ルータ3へ転送] ・TRANSMISSION SOURCE IP ADDRESS: xxx.xx.xxx.xxx ・INTERFACE: #y ・PROTOCOL ID: z
:	:	:	
:	:	:	
:	:	:	

← 1402



FIG.16

CONGESTION INFORMATION FRAME (ETHERNET)

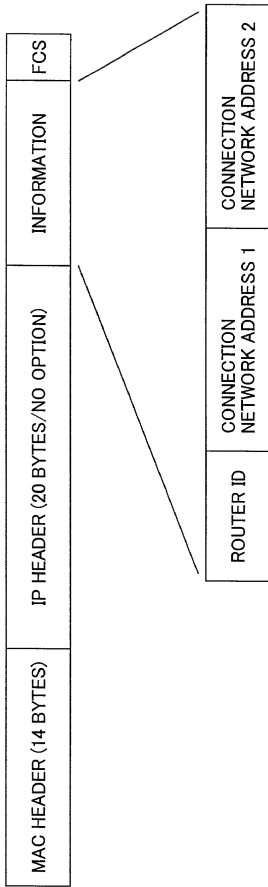


FIG. 17

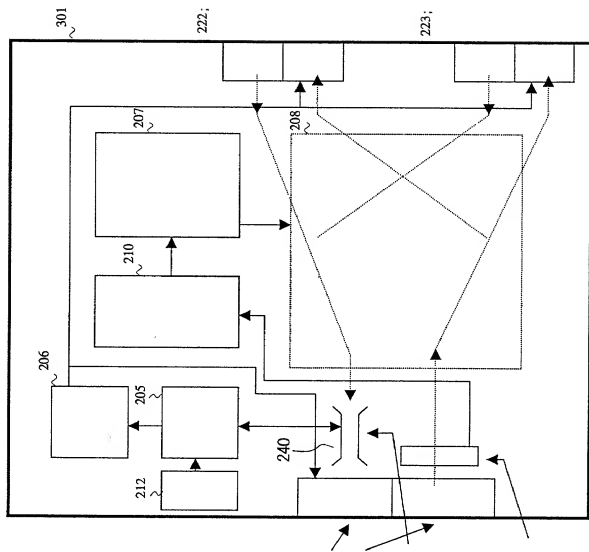


FIG. 18

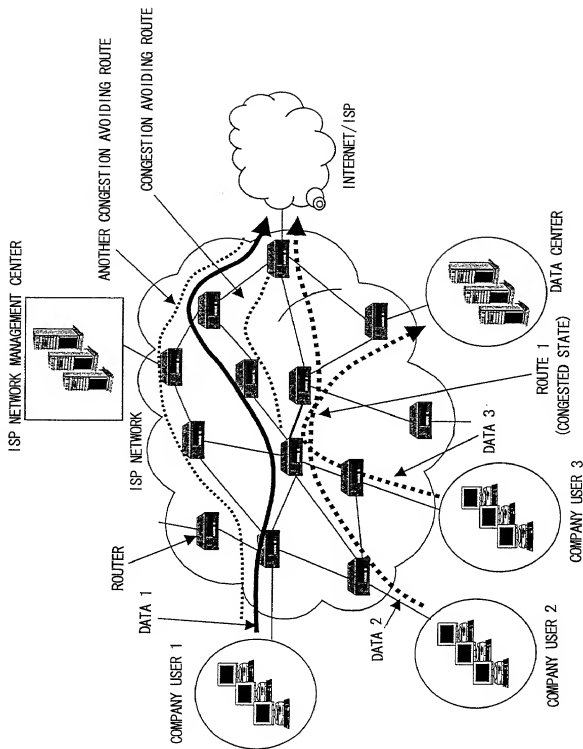


FIG.19

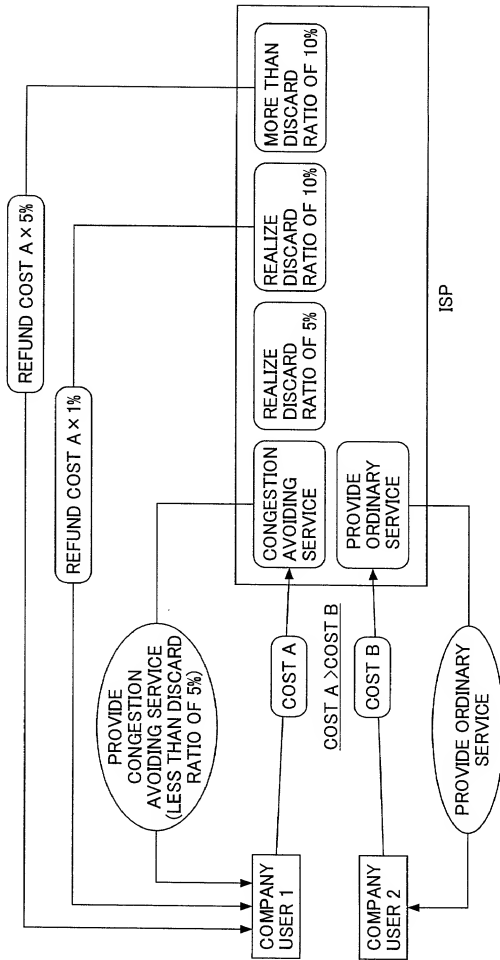




FIG. 21

